

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291661

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.2 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

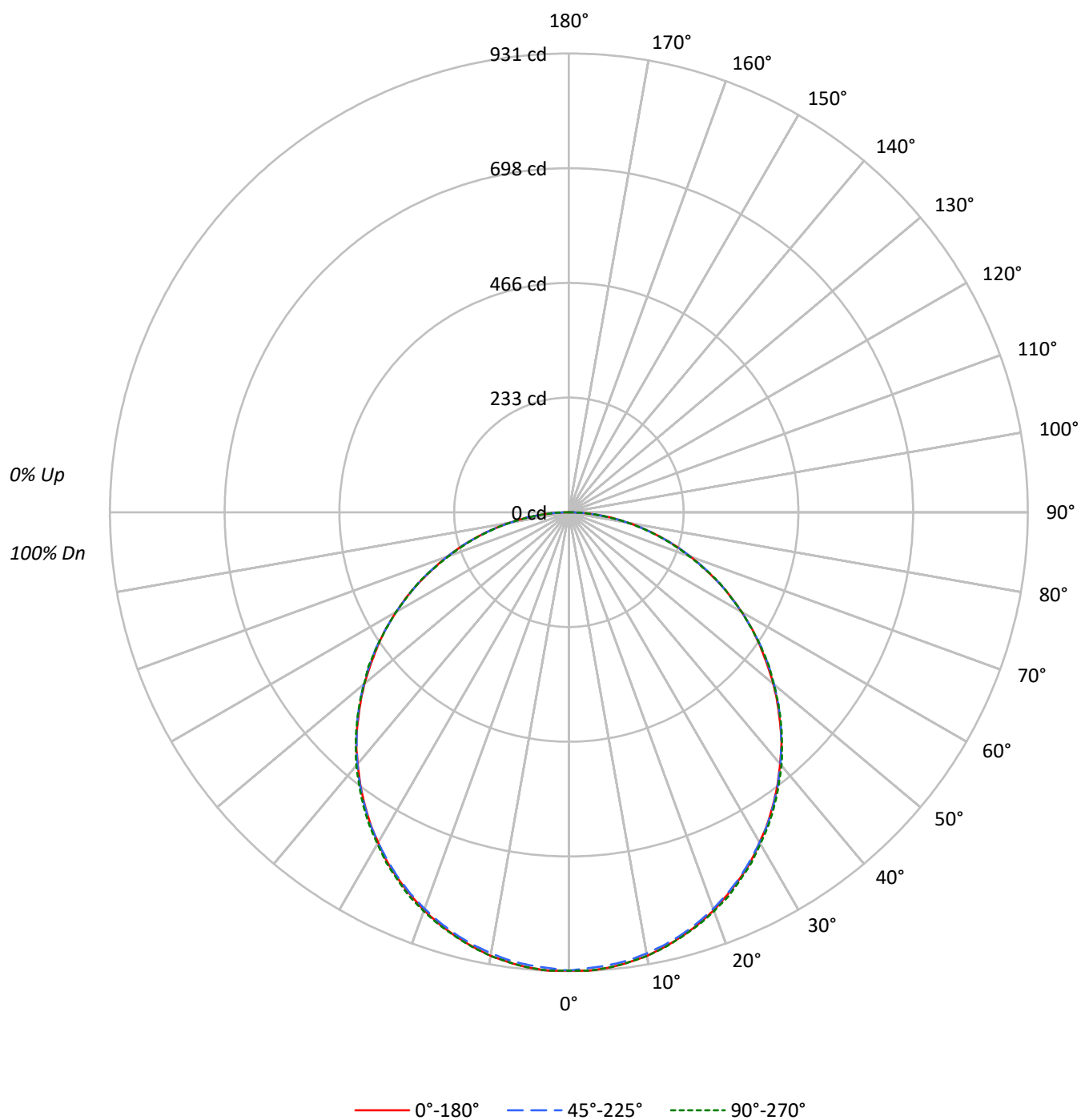
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2502	2502	2502
5°	2505	2491	2505
10°	2497	2483	2497
15°	2479	2470	2482
20°	2461	2451	2466
25°	2436	2431	2443
30°	2403	2403	2414
35°	2373	2376	2388
40°	2341	2344	2356
45°	2307	2313	2316
50°	2267	2274	2270
55°	2221	2233	2229
60°	2178	2178	2178
65°	2127	2127	2138
70°	2060	2060	2040
75°	1989	1980	1971
80°	1897	1884	1870
85°	1785	1760	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.3
10°-20°	251.0	9.4
20°-30°	378.2	14.2
30°-40°	453.2	17.0
40°-50°	468.7	17.6
50°-60°	425.0	16.0
60°-70°	330.3	12.4
70°-80°	201.7	7.6
80°-90°	63.2	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	717.1	27.0
0°-40°	1170.3	44.0
0°-60°	2064.0	77.6
0°-90°	2659.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	927	926	922	926	927	88
15°	890	890	887	891	891	251
25°	820	820	819	824	823	378
35°	722	723	723	727	727	452
45°	606	607	608	609	609	468
55°	474	475	476	476	475	424
65°	334	334	334	332	336	330
75°	191	191	190	190	190	202
85°	58	56	57	55	55	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.9	929.9	929.9	929.9	929.9
2.5°	930.8	929.9	925.7	929.9	930.8
5°	927.4	926.5	922.3	926.5	927.4
7.5°	921.4	921.4	917.2	921.4	921.4
10°	913.8	912.9	908.7	912.9	913.8
12.5°	902.7	902.7	898.5	902.7	903.6
15°	890.0	890.0	886.6	890.8	890.8
17.5°	875.5	876.4	872.1	877.2	877.2
20°	859.4	858.5	856.0	860.2	861.1
22.5°	839.8	840.7	838.1	843.2	844.1
25°	820.3	820.3	818.6	823.7	822.8
27.5°	799.0	799.0	796.5	800.7	801.6
30°	773.5	774.4	773.5	777.8	776.9
32.5°	749.7	750.6	750.6	752.3	753.1
35°	722.5	723.4	723.4	726.8	726.8
37.5°	695.3	695.3	696.2	698.7	698.7
40°	666.4	667.3	667.3	669.8	670.7
42.5°	638.4	636.7	637.5	640.1	640.1
45°	606.1	606.9	607.8	608.6	608.6
47.5°	573.8	575.5	576.3	577.2	576.3
50°	541.5	543.2	543.2	542.3	542.3
52.5°	506.6	510.9	510.0	510.0	511.7
55°	473.5	475.2	476.0	476.0	475.2
57.5°	440.3	442.0	440.3	441.2	439.5
60°	404.6	405.5	404.6	404.6	404.6
62.5°	369.8	370.6	368.9	368.9	368.9
65°	334.1	334.1	334.1	332.4	335.8
67.5°	296.7	298.4	298.4	299.2	295.8
70°	261.8	262.7	261.8	261.0	259.3
72.5°	227.0	227.8	228.7	225.3	224.4
75°	191.3	191.3	190.4	189.6	189.6
77.5°	156.4	156.4	156.4	154.7	154.7
80°	122.4	123.3	121.6	121.6	120.7
82.5°	89.3	89.3	89.3	88.4	86.7
85°	57.8	56.1	57.0	55.3	55.3
87.5°	26.4	26.4	26.4	24.7	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)